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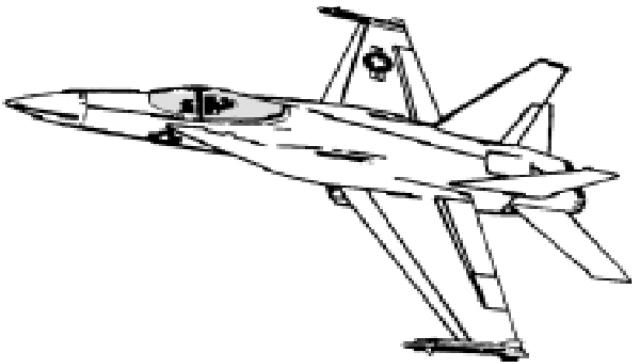
## ***CHANGE NOTICE***

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A1-F18AE-LWS-720

# **Conventional Weapons**

CHECKLIST  
F/A-18  
ECM  
ALE-39/ALE-47



### **REPRINT**

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NATEC ELECTRONIC MANUAL

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Total number of pages in this checklist is 14, consisting of the following:

<u>Pg. No.</u>	<u>Chg. No.</u>	<u>Pg. No.</u>	<u>Chg. No.</u>	<u>Pg. No.</u>	<u>Chg. No.</u>
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**A**

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**INTRODUCTION**

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This checklist contains abbreviated procedures to load and unload the ALE-29 and ALE-47 Dispenser magazines on the F/A-18 aircraft.

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**REQUIRED READING**

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Loading crew members may perform several steps simultaneously provided they do not invalidate or interfere with a preceding or subsequent step and safety precautions are strictly observed.

The steps within this checklist to SAFE racks mean rotation of ground safety handle to the LOCKED position.

Ensure compliance/incorporation of the following Technical Directives, as applicable:

<u>TECHNICAL DIRECTIVE</u>	<u>SUBJECT</u>
1. AVC-5149	AN/ALE-39 Countermeasures Dispensing System, Modification of.

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**RESTRICTIONS:**

1. None.

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**REQUIRED READING (Continued)**

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**TEST EQUIPMENT/SPECIAL TOOLS:**

1. Allen Wrench 5/32-inch
2. Torque Wrench 0-100 inch pounds
3. Proximity switch control

For specific flight authorization, refer to the Tactical Manual. The procedures in this checklist have been verified for the following weapon:

AN/ALE-29 Dispenser Magazine

AN/ALE-47 Dispenser Magazine

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**AIRCRAFT PREPARATION/INSPECTION**

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1. Release and Control Systems Checks completed .....( )
2. Loaded stations - SAFE .....( )

**WARNING** DO NOT RESET ALE-39 SYSTEM WITH LOADED MAGAZINES INSTALLED.

3. (If applicable) Reset ALE-39 system as follows:
  - a. Armament switches positioned (Table 1) .....( )

**WARNING** PRIOR TO APPLYING POWER, COCKPIT SWITCHES MUST BE READY TO RECEIVE POWER.

- b. Connect Proximity Switch Control .....( )
- c. Apply electrical power .....( )
- d. GND PWR control panel:
  - (1) EXT PWR-RESET then NORM .....( )
  - (2) Switch 3-A ON .....( )

**WARNING** DO NOT CONNECT PROXIMITY SWITCH CONTROL TO AIRCRAFT WITH AIRCRAFT LAUNCH BAR IN THE DOWN POSITION.

- e. (If applicable) Close AN/ALE-39 CONT and AN/ALE-39 PWR circuit breakers .....( )
- f. (If applicable) Push ECM electrical safety switch in, turn clockwise to ARM (flush) .....( )

**WARNING** DO NOT ACTUATE ANY SWITCH ON THE PROXIMITY SWITCH CONTROL EXCEPT AS CALLED FOR.

- g. Proximity Switch Control: RIGHT MAIN, NOSE GEAR-WT OFF WHEELS .....( )

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**AIRCRAFT PREPARATION/INSPECTION (Continued)**

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- h. BUNO 161353 thru 163782:
  - (1) Master Arm Control Panel: Master switch to ARM .....( )
  - (2) Nose wheelwell: ARMAMENT OVERRIDE-OVERRIDE ..( )
- i. ECM control panel:
  - (1) DISPENSER-C .....( )
- j. Programmer:
  - (1) Reset-RESET for 5 seconds then release .....( )
- k. ECM control panel:
  - (1) DISPENSER-OFF .....( )
- l. Proximity Switch control:
  - (1) RIGHT MAIN, NOSE GEAR-NORM .....( )
- m. BUNO 11353 thru 163782:
  - (1) Master Arm Control Panel: MASTER switch to  
SAFE .....( )
- n. GND PWR control panel:
  - (1) EXT PWR - OFF .....( )
- o. (If applicable) Open ALE-39 CONT and AN/ALE-39  
PWR circuit breakers .....( )
- p. (If applicable) ECM electrical safety switch  
SAFE (Extended) .....( )
- q. Disconnect/Remove Proximity Switch Control .....( )
- r. (If applicable) Remove electrical power .....( )

- 4. (If applicable) ALE-39 dispenser housing plug(s)  
and 32 pin connector(s) NOT damaged (Fig. 1) .....( )
- 5. (If applicable) ALE-47 dispenser housing plug(s)  
and 48 pin connector(s) NOT DAMAGED (Fig. 2) .....( )

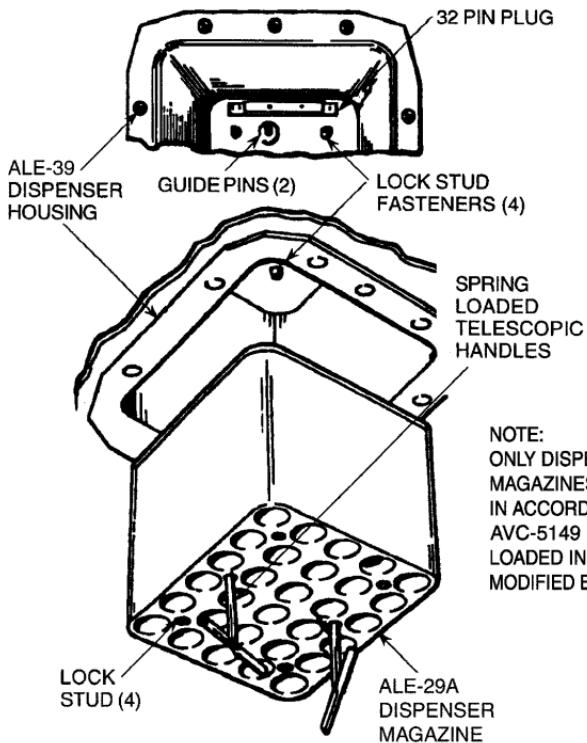
**Table 1. Aircraft Armament Switches**

PANEL	SWITCH	POSITION
MC/HYD ISOL	MC	NORM
NUC WPN SWITCH	NUC WPN	DISABLE (down position)
GND POWER CONTROL	1 2 3 4 EXT PWR	AUTO AUTO AUTO AUTO OFF
LEFT VERTICAL	SELECT JETT JETT (pushbutton)	SAFE off
MASTER ARM CONTROL	MASTER EMERG JETT (pushbutton)	SAFE Yellow/Brass ring not visible
ECM CONTROL (NOTE 1) ICMDS (NOTE 2)	AUX REL ECM DISPENSER MODE SEL RWR	NORM OFF OFF STBY OFF
ANTENNA SELECT CONTROL PANEL (NOTE 3 and 4)	ALE-39 RESET	OFF
EMERGENCY JETTISON	(rear cockpit) EMERG JETT	Yellow/Brass ring not visible
ITALD CONTROL (If installed)	INSTM POWER CIRCUIT BREAKER	OFF RESET
AN/ALQ-167 CONTROL (If installed)	PWR	OFF
MAP GAIN CONTROL	IR COOL	(NOTE 5)
COMMUNICATION	WPN VOL control	LOW
FWD/REAR COCKPIT	All other switches	OFF, SAFE, or NORMAL
NOTE		
<ol style="list-style-type: none"> <li>1. 161353 thru 164980</li> <li>2. 165171 and UP</li> <li>3. 161353 thru 163175</li> <li>4. 163427 thru 164980</li> <li>5. Without AIM-9L/M or with AIM-9X -OFF position, and NORM position with AIM-9L/M</li> </ol>		

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**AIRCRAFT PREPARATION/INSPECTION (Continued)**

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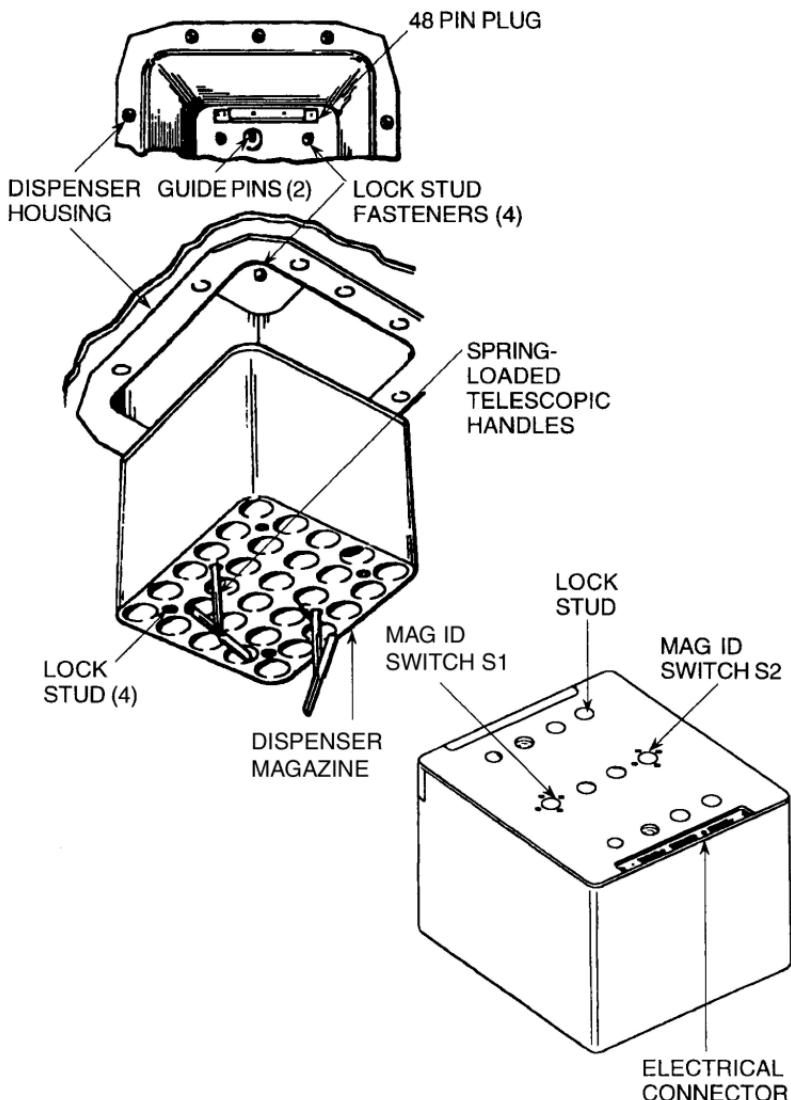


**Figure 1. ALE-29A Dispenser Magazine and ALE-39 Dispenser Housing**

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**AIRCRAFT PREPARATION/INSPECTION (Continued)**

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**Figure 2. ALE-47 Dispenser Magazine and Dispenser Housing**

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**WEAPON INSPECTION**

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**NOTE:** (AN/ALE-29) DISPENSER MAGAZINE MODIFIED BY AVC-5149 CAN ONLY BE LOADED IN AIRCRAFT MODIFIED WITH AVC-5149.

1. Dispenser magazine NOT damaged .....( )
2. Loaded in accordance with operational plan .....( )
3. (ALE-47) MAG ID switches S1 and S2 set in accordance with operational plan .....( )
4. (If applicable) 32-pin connector and circuit board clean; NOT damaged .....( )
5. (If applicable) 48-pin connector and circuit board clean; NOT damaged .....( )
6. Lock studs and spring-loaded telescopic handles NOT damaged .....( )

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## WEAPON LOADING

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### A. PREPARATION

1. Aircraft Preparation/Inspection and Weapon Inspection completed .....( )
2. (If applicable) Power removed .....( )
3. Aircraft grounded .....( )
4. Armament switches positioned (Table 1) .....( )
5. Place WEAPON LOADED sign in cockpit .....( )

### B. LOADING

1. Release spring loaded telescopic handles .....( )

**CAUTION**

(ALE-29A) IF MAGAZINE DOES NOT SEAT FULLY, 32-PIN CONNECTOR MAY BE DAMAGED.

**CAUTION**

(ALE-47) IF MAGAZINE DOES NOT SEAT FULLY, 48-PIN CONNECTOR MAY BE DAMAGED.

**NOTE:**

(AN/ALE-29) DISPENSER MAGAZINE MODIFIED BY AVC-5149 CAN ONLY BE LOADED IN AIRCRAFT MODIFIED WITH AVC-5149.

2. Insert dispenser magazine into dispenser housing .....( )
3. (ALE-29) Torque lock studs in an X pattern to  $55 \pm 5$  inch-pounds (in 10 inch-pound increments) .....( )
4. (ALE-47) Torque lock studs in an X pattern to  $70 \pm 5$  inch-pounds (in 10 inch-pound increments) .....( )
5. Secure spring-loaded telescopic handles .....( )

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**POSTLOADING INSPECTION**

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1. Armament switches positioned (Table 1) .....( )
2. WEAPON LOADED sign in cockpit .....( )
3. Programmer and counters set as directed .....( )
4. (If applicable) Door 10R open, circuit breakers AN/ALE-39  
CONT and AN/ALE-39 PWR-OPEN .....( )
5. ECM electrical safety switch-SAFE (extended) .....( )

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## WEAPON UNLOADING

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**A. PREPARATION**

1. (If applicable) Power removed .....( )
2. Aircraft grounded .....( )
3. Loaded stations - SAFE .....( )
4. Armament switches positioned (Table 1) .....( )
5. WEAPON LOADED sign in cockpit .....( )
6. (If applicable) Verify circuit breakers AN/ALE-39  
CONT and AN/ALE-39 PWR-OPEN .....( )
7. (If applicable) ECM electrical safety switch-SAFE  
(extended) .....( )

**B. UNLOADING**

1. Release spring-loaded telescopic handles .....( )
2. Release lock studs .....( )
3. Remove magazine(s) .....( )
4. Remove/stow WEAPON LOADED sign .....( )

